



ANALYTICAL REPORT

For file

Lab Number:	L1726880
Client:	Niagara Wheatfield Central School Dist. PO Box 309 Sanborn, NY 14132
ATTN:	Cono Sammarco
Phone:	(716) 215-3220
Project Name:	ANNUAL DRINKING WATER ANALYSIS
Project Number:	Not Specified
Report Date:	08/23/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: ANNUAL DRINKING WATER ANALYSIS
Project Number: Not Specified

Lab Number: L1726880
Report Date: 08/23/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1726880-01	ENTRY POINT - FIN. WATER STG. TANK	DW	SANBORN, NY 14132	08/03/17 07:30	08/03/17
L1726880-02	ENTRY POINT - RAW WATER	DW	SANBORN, NY 14132	08/03/17 07:35	08/03/17
L1726880-03	ENTRY POINT - BASEMENT SINK	DW	SANBORN, NY 14132	08/03/17 07:40	08/03/17
L1726880-04	TRIP BLANK	WATER	SANBORN, NY 14132	08/03/17 00:00	08/03/17
L1726880-05	DISTRIBUTION SYSTEM - KITCHEN SINK	DW	SANBORN, NY 14132	08/03/17 07:45	08/03/17
L1726880-06	TRIP BLANK	DW	SANBORN, NY 14132	08/03/17 00:00	08/03/17
L1726880-07	DISTRIBUTION SYSTEM - RM 109 BATHROOM	DW	SANBORN, NY 14132	08/03/17 07:50	08/03/17
L1726880-08	DISTRIBUTION SYSTEM - RM 107 SINK	DW	SANBORN, NY 14132	08/03/17 07:55	08/03/17
L1726880-09	DISTRIBUTION SYSTEM - RM 108 BATHROOM	DW	SANBORN, NY 14132	08/03/17 08:00	08/03/17
L1726880-10	DISTRIBUTION SYSTEM - BOY'S SHOWER ROOM	DW	SANBORN, NY 14132	08/03/17 08:05	08/03/17
L1726880-11	DISTRIBUTION SYSTEM - RM 120 GIRL'S BATHROOM	DW	SANBORN, NY 14132	08/03/17 08:10	08/03/17

Project Name: ANNUAL DRINKING WATER ANALYSIS
Project Number: Not Specified

Lab Number: L1726880
Report Date: 08/23/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

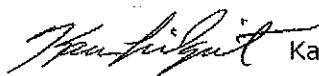
Project Name: ANNUAL DRINKING WATER ANALYSIS**Lab Number:** L1726880**Project Number:** Not Specified**Report Date:** 08/23/17**Case Narrative (continued)****Report Submission**

Please note that this report format does not contain typical QC parameters that were performed with these samples. As such, any QC outliers or non-conformances can only be reviewed by accessing your Alpha Customer Center account at www.alphalab.com and building a Data Usability table (format 11) in our Data Merger tool.

The analyses of Haloacetic Acids, 515.3, 531.2, 505, and 525.2 were subcontracted. Copies of the laboratory reports are included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Kara Lindquist

Title: Technical Director/Representative

Date: 08/23/17

VOLATILES

Serial_No:08231714:30

Project Name: ANNUAL DRINKING WATER ANALYSIS

Lab Number: L1726880

Project Number: Not Specified

Report Date: 08/23/17

SAMPLE RESULTS

Lab ID: L1726880-03

Date Collected: 08/03/17 07:40

Client ID: ENTRY POINT - BASEMENT SINK

Date Received: 08/03/17

Sample Location: SANBORN, NY 14132

Field Prep: Not Specified

Matrix: Dw

Extraction Method: EPA 504.1

Analytical Method: 14,504.1

Extraction Date: 08/10/17 13:17

Analytical Date: 08/10/17 14:41

Analyst: NS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Microextractables by GC - Westborough Lab							
1,2-Dibromoethane	ND		ug/l	0.010	--	1	A
1,2-Dibromo-3-chloropropane	ND		ug/l	0.010	--	1	A

Project Name: ANNUAL DRINKING WATER ANALYSIS

Lab Number: L1726880

Project Number: Not Specified

Report Date: 08/23/17

SAMPLE RESULTS

Lab ID: L1726880-03

Date Collected: 08/03/17 07:40

Client ID: ENTRY POINT - BASEMENT SINK

Date Received: 08/03/17

Sample Location: SANBORN, NY 14132

Field Prep: Not Specified

Matrix: Dw

Analytical Method: 16,524.2

Analytical Date: 08/09/17 13:22

Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	0.50	--	1
Vinyl chloride	ND		ug/l	0.50	--	1
Bromomethane	ND		ug/l	0.50	--	1
Chloroethane	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	0.50	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
Methylene chloride	ND		ug/l	0.50	--	1
Methyl tert butyl ether	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.50	--	1
1,1-Dichloroethane	ND		ug/l	0.50	--	1
2,2-Dichloropropane	ND		ug/l	0.50	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Chloroform	2.3		ug/l	0.50	--	1
Bromochloromethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	0.50	--	1
Bromodichloromethane	1.6		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1

Project Name: ANNUAL DRINKING WATER ANALYSIS

Lab Number: L1726880

Project Number: Not Specified

Report Date: 08/23/17

SAMPLE RESULTS

Lab ID: L1726880-03

Date Collected: 08/03/17 07:40

Client ID: ENTRY POINT - BASEMENT SINK

Date Received: 08/03/17

Sample Location: SANBORN, NY 14132

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dibromochloromethane	3.9		ug/l	0.50	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
p/m-Xylene	ND		ug/l	0.50	--	1
o-Xylene	ND		ug/l	0.50	--	1
Styrene	ND		ug/l	0.50	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
Bromoform	3.1		ug/l	0.50	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
1,2,3-Trichloropropane	ND		ug/l	0.50	--	1
Xylenes, Total	ND		ug/l	0.50	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	0.50	--	1
1,3,5-Trimethylbenzene	ND		ug/l	0.50	--	1
o-Chlorotoluene	ND		ug/l	0.50	--	1
p-Chlorotoluene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	0.50	--	1
1,2,4-Trimethylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
1,3-Dichlorobenzene	ND		ug/l	0.50	--	1
1,4-Dichlorobenzene	ND		ug/l	0.50	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	0.50	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	0.50	--	1
1,2,4-Trichlorobenzene	ND		ug/l	0.50	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	0.50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	101		80-120
4-Bromofluorobenzene	97		80-120

Project Name: ANNUAL DRINKING WATER ANALYSIS
Project Number: Not Specified

Serial_No:08231714:30
Lab Number: L1726880
Report Date: 08/23/17

SAMPLE RESULTS

Lab ID: L1726880-04
Client ID: TRIP BLANK
Sample Location: SANBORN, NY 14132

Matrix: Water
Analytical Method: 14,504.1
Analytical Date: 08/10/17 14:57
Analyst: NS

Date Collected: 08/03/17 00:00
Date Received: 08/03/17
Field Prep: Not Specified
Extraction Method: EPA 504.1
Extraction Date: 08/10/17 13:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Microextractables by GC - Westborough Lab							
1,2-Dibromoethane	ND		ug/l	0.010	--	1	A
1,2-Dibromo-3-chloropropane	ND		ug/l	0.010	--	1	A

Project Name: ANNUAL DRINKING WATER ANALYSIS

Lab Number: L1726880

Project Number: Not Specified

Report Date: 08/23/17

SAMPLE RESULTS

Lab ID: L1726880-04
 Client ID: TRIP BLANK
 Sample Location: SANBORN, NY 14132

Date Collected: 08/03/17 00:00
 Date Received: 08/03/17
 Field Prep: Not Specified

Matrix: Water
 Analytical Method: 16,524.2
 Analytical Date: 08/09/17 14:33
 Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	0.50	--	1
Vinyl chloride	ND		ug/l	0.50	--	1
Bromomethane	ND		ug/l	0.50	--	1
Chloroethane	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	0.50	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
Methylene chloride	ND		ug/l	0.50	--	1
Methyl tert butyl ether	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.50	--	1
1,1-Dichloroethane	ND		ug/l	0.50	--	1
2,2-Dichloropropane	ND		ug/l	0.50	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Chloroform	ND		ug/l	0.50	--	1
Bromochloromethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1



Project Name: ANNUAL DRINKING WATER ANALYSIS

Lab Number: L1726880

Project Number: Not Specified

Report Date: 08/23/17

SAMPLE RESULTS

Lab ID: L1726880-04

Date Collected: 08/03/17 00:00

Client ID: TRIP BLANK

Date Received: 08/03/17

Sample Location: SANBORN, NY 14132

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dibromochloromethane	ND		ug/l	0.50	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
p/m-Xylene	ND		ug/l	0.50	--	1
o-Xylene	ND		ug/l	0.50	--	1
Styrene	ND		ug/l	0.50	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	0.50	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
1,2,3-Trichloropropane	ND		ug/l	0.50	--	1
Xylenes, Total'	ND		ug/l	0.50	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	0.50	--	1
1,3,5-Trimethylbenzene	ND		ug/l	0.50	--	1
o-Chlorotoluene	ND		ug/l	0.50	--	1
p-Chlorotoluene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	0.50	--	1
1,2,4-Trimethylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
1,3-Dichlorobenzene	ND		ug/l	0.50	--	1
1,4-Dichlorobenzene	ND		ug/l	0.50	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	0.50	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	0.50	--	1
1,2,4-Trichlorobenzene	ND		ug/l	0.50	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	0.50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	101		80-120
4-Bromofluorobenzene	95		80-120

Project Name: ANNUAL DRINKING WATER ANALYSIS**Lab Number:** L1726880**Project Number:** Not Specified**Report Date:** 08/23/17**SAMPLE RESULTS****Lab ID:** L1726880-05**Date Collected:** 08/03/17 07:45**Client ID:** DISTRIBUTION SYSTEM - KITCHEN SINK**Date Received:** 08/03/17**Sample Location:** SANBORN, NY 14132**Field Prep:** Not Specified**Matrix:** Dw**Analytical Method:** 16,524.2**Analytical Date:** 08/10/17 13:18**Analyst:** MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Volatile Organics by GC/MS - Westborough Lab

Chloroform	2.8		ug/l	0.50	--	1
Bromodichloromethane	4.0		ug/l	0.50	--	1
Dibromochloromethane	10		ug/l	0.50	--	1
Bromoform	8.9		ug/l	0.50	--	1
THMs, Total	26		ug/l	0.50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	102		80-120
4-Bromofluorobenzene	95		80-120

Project Name: ANNUAL DRINKING WATER ANALYSIS
Project Number: Not Specified

Serial_No:08231714:30

Lab Number: L1726880

Report Date: 08/23/17

SAMPLE RESULTS

Lab ID: L1726880-06
Client ID: TRIP BLANK
Sample Location: SANBORN, NY 14132

Date Collected: 08/03/17 00:00
Date Received: 08/03/17
Field Prep: Not Specified

Matrix: Dw
Analytical Method: 16,524.2
Analytical Date: 08/10/17 13:54
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Chloroform	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	0.50	--	1
THMs, Total	ND		ug/l	0.50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	101		80-120
4-Bromofluorobenzene	97		80-120



METALS

Project Name: ANNUAL DRINKING WATER ANALYSIS

Lab Number: L1726880

Project Number: Not Specified

Report Date: 08/23/17

SAMPLE RESULTS

Lab ID: L1726880-01

Date Collected: 08/03/17 07:30

Client ID: ENTRY POINT - FIN. WATER STG.

Date Received: 08/03/17

Sample Location: SANBORN, NY 14132

Field Prep: Not Specified

Matrix: Dw

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Calcium, Total	84.0		mg/l	0.100	—	1	08/07/17 05:50	08/07/17 12:17	EPA 3005A	19,200.7	PS
Copper, Total	0.0062		mg/l	0.0010	—	1	08/07/17 05:50	08/07/17 18:27	EPA 3005A	3,200.8	BM
Lead, Total	ND		mg/l	0.0010	—	1	08/07/17 05:50	08/07/17 18:27	EPA 3005A	3,200.8	BM



Project Name: ANNUAL DRINKING WATER ANALYSIS**Lab Number:** L1726880**Project Number:** Not Specified**Report Date:** 08/23/17**SAMPLE RESULTS****Lab ID:** L1726880-02**Date Collected:** 08/03/17 07:35**Client ID:** ENTRY POINT - RAW WATER**Date Received:** 08/03/17**Sample Location:** SANBORN, NY 14132**Field Prep:** Not Specified**Matrix:** Dw

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Calcium, Total	144		mg/l	0.100	—	1	08/07/17 05:50	08/07/17 12:21	EPA 3005A	19,200.7	PS
Copper, Total	0.0152		mg/l	0.0010	—	1	08/07/17 05:50	08/07/17 18:21	EPA 3005A	3,200.8	BM
Lead, Total	ND		mg/l	0.0010	—	1	08/07/17 05:50	08/07/17 18:21	EPA 3005A	3,200.8	BM



Project Name: ANNUAL DRINKING WATER ANALYSIS**Lab Number:** L1726880**Project Number:** Not Specified**Report Date:** 08/23/17**SAMPLE RESULTS****Lab ID:** L1726880-03**Date Collected:** 08/03/17 07:40**Client ID:** ENTRY POINT - BASEMENT SINK**Date Received:** 08/03/17**Sample Location:** SANBORN, NY 14132**Field Prep:** Not Specified**Matrix:** Dw

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Sodium, Total	196		mg/l	2.00	--	1	08/07/17 05:50	08/07/17 12:25	EPA 3005A	19,200.7	PS



Project Name: ANNUAL DRINKING WATER ANALYSIS
Project Number: Not Specified

Lab Number: L1726880
Report Date: 08/23/17

SAMPLE RESULTS

Lab ID: L1726880-07
Client ID: DISTRIBUTION SYSTEM - RM 109 B
Sample Location: SANBORN, NY 14132
Matrix: Dw

Date Collected: 08/03/17 07:50
Date Received: 08/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Copper, Total	0.1254		mg/l	0.0010	-	1	08/07/17 05:50	08/07/17 18:31	EPA 3005A	3,200.8	BM
Lead, Total	0.0017		mg/l	0.0010	-	1	08/07/17 05:50	08/07/17 18:31	EPA 3005A	3,200.8	BM



Project Name: ANNUAL DRINKING WATER ANALYSIS
Project Number: Not Specified

Lab Number: L1726880
Report Date: 08/23/17

SAMPLE RESULTS

Lab ID: L1726880-08
Client ID: DISTRIBUTION SYSTEM - RM 107 S
Sample Location: SANBORN, NY 14132
Matrix: Dw

Date Collected: 08/03/17 07:55
Date Received: 08/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Copper, Total	0.1188		mg/l	0.0010	—	1	08/07/17 05:50	08/07/17 18:34	EPA 3005A	3,200.8	BM
Lead, Total	0.0019		mg/l	0.0010	—	1	08/07/17 05:50	08/07/17 18:34	EPA 3005A	3,200.8	BM



Project Name: ANNUAL DRINKING WATER ANALYSIS
Project Number: Not Specified

Lab Number: L1726880
Report Date: 08/23/17

SAMPLE RESULTS

Lab ID: L1726880-09
Client ID: DISTRIBUTION SYSTEM - RM 108 B
Sample Location: SANBORN, NY 14132
Matrix: Dw

Date Collected: 08/03/17 08:00
Date Received: 08/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Copper, Total	0.1289		mg/l	0.0010	--	1	08/07/17 05:50	08/07/17 18:37	EPA 3005A	3,200.8	BM
Lead, Total	ND		mg/l	0.0010	--	1	08/07/17 05:50	08/07/17 18:37	EPA 3005A	3,200.8	BM



Project Name: ANNUAL DRINKING WATER ANALYSIS**Lab Number:** L1726880**Project Number:** Not Specified**Report Date:** 08/23/17**SAMPLE RESULTS****Lab ID:** L1726880-10**Date Collected:** 08/03/17 08:05**Client ID:** DISTRIBUTION SYSTEM - BOY'S SH**Date Received:** 08/03/17**Sample Location:** SANBORN, NY 14132**Field Prep:** Not Specified**Matrix:** Dw

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Copper, Total	0.1448		mg/l	0.0010	—	1	08/07/17 05:50	08/07/17 18:41	EPA 3005A	3,200.8	BM
Lead, Total	ND		mg/l	0.0010	—	1	08/07/17 05:50	08/07/17 18:41	EPA 3005A	3,200.8	BM



Project Name: ANNUAL DRINKING WATER ANALYSIS

Lab Number: L1726880

Project Number: Not Specified

Report Date: 08/23/17

SAMPLE RESULTS

Lab ID: L1726880-11

Date Collected: 08/03/17 08:10

Client ID: DISTRIBUTION SYSTEM - RM 120 G

Date Received: 08/03/17

Sample Location: SANBORN, NY 14132

Field Prep: Not Specified

Matrix: Dw

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Copper, Total	0.1492		mg/l	0.0010	—	1	08/07/17 05:50	08/07/17 18:51	EPA 3005A	3,200.8	BM
Lead, Total	ND		mg/l	0.0010	—	1	08/07/17 05:50	08/07/17 18:51	EPA 3005A	3,200.8	BM



INORGANICS & MISCELLANEOUS

Serial_No:08231714:30

Project Name: ANNUAL DRINKING WATER ANALYSIS
Project Number: Not Specified

Lab Number: L1726880
Report Date: 08/23/17

SAMPLE RESULTS

Lab ID: L1726880-01
Client ID: ENTRY POINT - FIN. WATER STG.
Sample Location: SANBORN, NY 14132
Matrix: Dw

Date Collected: 08/03/17 07:30
Date Received: 08/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	289.		mg CaCO3/L	2.00	NA	1	-	08/04/17 09:14	121,2320B	BR
Specific Conductance @ 25 C	1600		umhos/cm	10	--	1	-	08/04/17 05:29	121,2510B	KA



Project Name: ANNUAL DRINKING WATER ANALYSIS**Lab Number:** L1726880**Project Number:** Not Specified**Report Date:** 08/23/17**SAMPLE RESULTS**

Lab ID: L1726880-02
Client ID: ENTRY POINT - RAW WATER
Sample Location: SANBORN, NY 14132
Matrix: Dw

Date Collected: 08/03/17 07:35
Date Received: 08/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	381.		mg CaCO3/L	2.00	NA	1	-	08/04/17 09:14	121,2320B	BR
Specific Conductance @ 25 C	2200		umhos/cm	10	--	1	-	08/04/17 05:29	121,2510B	KA



Project Name: ANNUAL DRINKING WATER ANALYSIS
Project Number: Not Specified

Lab Number: L1726880
Report Date: 08/23/17

SAMPLE RESULTS

Lab ID: L1726880-03
Client ID: ENTRY POINT - BASEMENT SINK
Sample Location: SANBORN, NY 14132
Matrix: Dw

Date Collected: 08/03/17 07:40
Date Received: 08/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Nitrite	ND		mg/l	0.050	--	1	-	08/04/17 20:52	121,4500NO3-F	MR
Nitrogen, Nitrate	2.02		mg/l	0.100	--	1	-	08/04/17 20:52	121,4500NO3-F	MR



Field Data Summary

Field Data Summary**Project Name:** ANNUAL DRINKING WATER ANALYSIS**Project Number:** Not Specified**Lab Number:** L1726880**Report Date:** 08/23/17

Parameter	Result	Units
Sample: L1726880-01 Client ID: ENTRY POINT - FIN. WATER STG. TANK		
Sampler Name	Zack Robison	NA
Date & Time Of Collection	08/03/17 07:30	NA
Field pH	6.85	SU
Temperature (C)	19.9	deg. C
Sample: L1726880-02 Client ID: ENTRY POINT - RAW WATER		
Sampler Name	Zack Robison	NA
Date & Time Of Collection	08/03/17 07:35	NA
Field pH	6.64	SU
Temperature (C)	17.4	deg. C

Project Name: ANNUAL DRINKING WATER ANALYSIS

Project Number: Not Specified

Serial_No:08231714:30

Lab Number: L1726880

Report Date: 08/23/17

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1726880-01A	Plastic 60ml unpreserved	A	7	7	4.4	Y	Absent		COND-2510(1)
L1726880-01B	Plastic 250ml unpreserved/No Headspace	A	NA		4.4	Y	Absent		ALK-T-2320(14)
L1726880-01C	Plastic 950ml HNO3 preserved	A	<2	<2	4.4	Y	Absent		CA-UI(180),CU-2008T(180),PB-2008T(180)
L1726880-02A	Plastic 60ml unpreserved	A	7	7	4.4	Y	Absent		COND-2510(1)
L1726880-02B	Plastic 250ml unpreserved/No Headspace	A	NA		4.4	Y	Absent		ALK-T-2320(14)
L1726880-02C	Plastic 950ml HNO3 preserved	A	<2	<2	4.4	Y	Absent		CA-UI(180),CU-2008T(180),PB-2008T(180)
L1726880-03A	Vial Ascorbic Acid/HCl preserved	A	NA		4.4	Y	Absent		524.2(14)
L1726880-03B	Vial Ascorbic Acid/HCl preserved	A	NA		4.4	Y	Absent		524.2(14)
L1726880-03C	Vial Na2S2O3 preserved	A	NA		4.4	Y	Absent		504(14)
L1726880-03D	Vial Na2S2O3 preserved	A	NA		4.4	Y	Absent		504(14)
L1726880-03E	Plastic 120ml unpreserved	A	7	7	4.4	Y	Absent		NO3-4500(2),NO2-4500NO3(2)
L1726880-03F	Plastic 250ml HNO3 preserved	A	<2	<2	4.4	Y	Absent		NA-UI(180)
L1726880-04A	Vial Ascorbic Acid/HCl preserved	A	NA		4.4	Y	Absent		524.2(14)
L1726880-04B	Vial Ascorbic Acid/HCl preserved	A	NA		4.4	Y	Absent		524.2(14)
L1726880-04C	Vial Na2S2O3 preserved	A	NA		4.4	Y	Absent		504(14)
L1726880-04D	Vial Na2S2O3 preserved	A	NA		4.4	Y	Absent		504(14)
L1726880-05A	Vial Ascorbic Acid/HCl preserved	A	NA		4.4	Y	Absent		524-THM(14)
L1726880-05B	Vial Ascorbic Acid/HCl preserved	A	NA		4.4	Y	Absent		524-THM(14)
L1726880-06A	Vial Ascorbic Acid/HCl preserved	A	NA		4.4	Y	Absent		524-THM(14)
L1726880-06B	Vial Ascorbic Acid/HCl preserved	A	NA		4.4	Y	Absent		524-THM(14)
L1726880-07A	Plastic 950ml HNO3 preserved	A	<2	<2	4.4	Y	Absent		CU-2008T(180),PB-2008T(180)
L1726880-08A	Plastic 950ml HNO3 preserved	A	<2	<2	4.4	Y	Absent		CU-2008T(180),PB-2008T(180)
L1726880-09A	Plastic 950ml HNO3 preserved	A	<2	<2	4.4	Y	Absent		CU-2008T(180),PB-2008T(180)

Project Name: ANNUAL DRINKING WATER ANALYSIS

Project Number: Not Specified

Serial_No:08231714:30

Lab Number: L1726880

Report Date: 08/23/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1726880-10A	Plastic 950ml HNO3 preserved	A	<2	<2	4.4	Y	Absent		CU-2008T(180),PB-2008T(180)
L1726880-11A	Plastic 950ml HNO3 preserved	A	<2	<2	4.4	Y	Absent		CU-2008T(180),PB-2008T(180)

Project Name: ANNUAL DRINKING WATER ANALYSIS

Lab Number: L1726880

Project Number: Not Specified

Report Date: 08/23/17

GLOSSARY**Acronyms**

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A - Spectra identified as "Aldol Condensation Product".
- B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report - No QC



Project Name: ANNUAL DRINKING WATER ANALYSIS

Lab Number: L1726880

Project Number: Not Specified

Report Date: 08/23/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Report Format: DU Report - No QC



Project Name: ANNUAL DRINKING WATER ANALYSIS
Project Number: Not Specified

Lab Number: L1726880
Report Date: 08/23/17

REFERENCES

- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 14 Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. EPA/600/4-88/039, Revised July 1991.
- 16 Methods for the Determination of Organic Compounds in Drinking Water - Supplement II. EPA/600/R-92/129, August 1992.
- 19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at its own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.

Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873

Revision 10

Published Date: 1/16/2017 11:00:05 AM

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.EPA 300: DW: BromideEPA 6860: NPW and SCM: PerchlorateEPA 9010: NPW and SCM: Amenable Cyanide DistillationEPA 9012B: NPW: Total CyanideEPA 9050A: NPW: Specific ConductanceSM3500: NPW: Ferrous IronSM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

SM 2540D: TSS

EPA 3005A NPWEPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO₃-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH₃-BH, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, SM4500NO₃-F, EPA 353.2: Nitrate-N, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO₄-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E.

Mansfield Facility:

Drinking Water

EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. EPA 245.1 Hg.

Non-Potable Water


EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 3	Date Rec'd in Lab <div style="font-size: 1.5em; font-family: cursive;">8/4/17</div>	ALPHA Job # <div style="font-size: 1.5em; font-family: cursive;">L1726580</div>															
		of 3																	
Project Information		Deliverables		Billing Information															
Project Name: Annual Drinking Water Analysis		ASP-A EQUS (1 File)		Same as Client Info PO #															
Project Location: Sanborn, NY 14132		ASP-B EQUS (4 File)																	
Client Information		Regulatory Requirement		Disposal Site Information															
Client: Niagara Wheatfield Central School Address: PO Box 309 Sanborn, NY 14132-0309 Phone: 716-215-3220 Fax: 716-215-3230 Email: mplacek@nwcsd.org		NY TOGS AWQ Standards NY Restricted Use NY Unrestricted Use NYC Sewer Discharge		Please identify below location of applicable disposal facilities. Disposal Facility: NJ NY Other:															
Project Manager: Mark Placek ALPHAGrade #:		NY Part 375 NY CP-51 Other																	
Turn-Around Time																			
Standard Due Date: Rush (only if pre approved) # of Days:																			
These samples have been previously analyzed by Alpha Other project specific requirements/comments: Collect from the first 5 sites. If one or more of the sites are not available, substitute from the list of the second five sites. Collect 5 total samples. Please specify Metals or TAL.																			
ANALYSIS																			
Sample Filtration																			
Done Lab to do Preservation Lab to do (Please Specify below)																			
Sample Specific Comments																			
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time	Sample Matrix	Sampler's Initials	CU-2008T PB-2008T														
26580-07	Distribution System - Rm 109 Bathroom	8/3/17 0750	DW	ZSR	X														
08	Distribution System - Rm 107 Sink	8/3/17 0755	DW	ZSR	X														
09	Distribution System - Rm 108 Bathroom	8/3/17 0800	DW	ZSR	X														
10	Distribution System - Boy's Shower Room	8/3/17 0805	DW	ZSR	X														
	Distribution System - Girl's Bathroom #11		DW		X														
	Distribution System - Kitchen Tap		DW		X														
	Distribution System - Rm 119 Boy's Bathroom		DW		X														
11	Distribution System - Rm 120 Girl's Bathroom	8/3/17 0810	DW	ZSR	X														
	Distribution System - Girl's Shower Room		DW		X														
	Distribution System - Boy's Bathroom #12		DW		X														
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative													
Relinquished By: <i>[Signature]</i>		Date/Time: 8/3/17 1220		Received By: <i>[Signature]</i>		Date/Time: 8/4/17 1:20													
Form No: 01-25 (rev. 30-Sept-2013)																			

[illegible]

Alpha Analytical, Inc.
Facility: Buffalo, NY
Department: Sampling
Title: Field Data Sheet

P1726880



Field Data Sheet

Serial_No:08231714:30

ID: 18560

Revision: 4

Published Date: 10/12/2016 11:03:14 AM

Page 1 of 1

Section 1: Event Information

Customer:	Niagara Wheatfield CSD	Date:	8/3/17
Site/Location:	Fin / Raw / Basement Sink	Time:	0730/0735/0740
Sampler Name (printed):	Zack Robison	Weather:	Partly Cloudy

Section 2: Sample Collection Information

Type of sample:	<input checked="" type="checkbox"/> Grab	<input type="checkbox"/> Composite	<input type="checkbox"/> Manual Composite	<input type="checkbox"/> Other: _____
If composite, Isco ID: _____				

Section 3: Field Readings

Fin | Raw | B.S.

Field pH (SM4500H+-B):	6.85	6.64	6.61	Flow 1:		Units:
Meter ID:	A2	A2	A2	Flow 2:		Units:
Residual Chlorine (SM4500Cl-G):				Flow 3:		Units:
Meter ID:			22.2°	Flow 4:		Units:
Temperature:	19.9°	17.4°	<input checked="" type="checkbox"/> C <input type="checkbox"/> F			

Section 4: On-site Meter/Site Readings

pH:		Integrator Value:		Units:
Temperature:	<input type="checkbox"/> C <input type="checkbox"/> F	Diameter of outfall pipe:		
Refrigerator Temperature:	<input type="checkbox"/> C <input type="checkbox"/> F	Depth of outfall pipe:		

Section 5: Field Observations

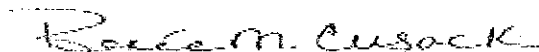
Sampler Signature:	
--------------------	--

ANALYTICAL REPORT

Job Number: 420-124641-1
SDG Number: L1726880
Job Description: Alpha Analytical, Inc.

For:
Alpha Analytical
8 Walkup Drive
Westborough, MA 01581

Attention: Subcontract Reports



Renee Cusack
Lab Director
rcusack@envirotestlaboratories.com
08/16/2017

NYSDOH ELAP does not certify for all parameters. EnviroTest Laboratories does hold certification for all analytes where certification is offered by ELAP unless otherwise specified in the Certification Information section of this report. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval of the laboratory. EnviroTest Laboratories Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative.

EnviroTest Laboratories, Inc. Certifications and Approvals: NYSDOH 10142, NJDEP NY015, CTDOH PH-0554

Job Narrative
420-J124641-1

HAAS

Method 552.2: The Matrix Spike (MS) performed on 124687-2 was outside of acceptable limits for Monochloroacetic Acid and Dibromoacetic Acid. All other associated QC was acceptable.

METHOD SUMMARY

Client: Alpha Analytical

Job Number: 420-124641-1

SDG Number: L1726880

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Haloacetic Acids in Drinking Water by GC/ECD	EnvTest	EPA 552.2	
Haloacetic Acids Sample Preparation	EnvTest		EPA 552.2

Lab References:

EnvTest = EnviroTest

Method References:

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: Alpha Analytical

Job Number: 420-124641-1

SDG Number: L1726880

Method	Analyst	Analyst ID
EPA 552.2	Miller, Kyle A	KAM

SAMPLE SUMMARY

Client: Alpha Analytical

Job Number: 420-124641-1
SDG Number: L1726880

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
420-124641-1	Distribution System- Kitchen Sink	Drinking Water	08/03/2017 0745	08/04/2017 1040

SAMPLE RESULTS

Subcontract Reports
 Alpha Analytical
 8 Walkup Drive
 Westborough, MA 01581

Job Number: 420-124641-1
 Sdg Number: L1726880

Client Sample ID: Distribution System- Kitchen Sink
 Lab Sample ID: 420-124641-1

Date Sampled: 08/03/2017 0745
 Date Received: 08/04/2017 1040
 Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 552.2					
Prep Method: 552.2					
			Date Analyzed:	08/16/2017 0100	
			Date Prepared:	08/15/2017 0900	
Monochloroacetic acid	1.0 U	ug/L	1.0	1.0	1.0
Monobromoacetic acid	1.0 U	ug/L	1.0	1.0	1.0
Dichloroacetic acid	1.4	ug/L	1.0	1.0	1.0
Trichloroacetic acid	1.0 U	ug/L	1.0	1.0	1.0
Bromochloroacetic acid	3.4	ug/L	1.0	1.0	1.0
Dibromoacetic acid	8.3	ug/L	1.0	1.0	1.0
Total Haloacetic Acids	9.7	ug/L	1.0	1.0	1.0
Surrogate	Acceptance Limits				
2-Bromopropionic acid	102	%	70 - 130		

DATA REPORTING QUALIFIERS

Client: Alpha Analytical

Job Number:
Sdg Number: L1726880

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	F	MS or MSD exceeds the control limits
	U	The analyte was analyzed for but not detected at or above the lowest stated limit.

Definitions and Glossary

Client: Alpha Analytical

Job Number:

Sdg Number: L1726880

<u>Abbreviation</u>	<u>These commonly used abbreviations may or may not be present in this report.</u>
%R	Percent Recovery
DL, RA, RE	Indicates a Dilution, Reanalysis or Reextraction.
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND	Not detected at the reporting limit (or MDL if shown).
QC	Quality Control
RL	Reporting Limit - the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD	Relative Percent Difference - a measure of the relative difference between two points

QUALITY CONTROL RESULTS

Quality Control Results

Client: Alpha Analytical

Job Number: 420-124641-1

Sdg Number: L1726880

Method Blank - Batch: 420-113426

Method: 552.2

Preparation: 552.2

Lab Sample ID: MB 420-113426/2-A

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 08/15/2017 1926

Date Prepared: 08/15/2017 0900

Analysis Batch: 420-113427

Prep Batch: 420-113426

Units: ug/L

Instrument ID: 2012 Agilent 5975C MSD and

Lab File ID: 007.D

Initial Weight/Volume: 40 mL

Final Weight/Volume: 4 mL

Injection Volume:

Column ID: PRIMARY

Analyte	Result	Qual	RL	RL
Monochloroacetic acid	1.0	U	1.0	1.0
Monobromoacetic acid	1.0	U	1.0	1.0
Dichloroacetic acid	1.0	U	1.0	1.0
Trichloroacetic acid	1.0	U	1.0	1.0
Bromochloroacetic acid	1.0	U	1.0	1.0
Dibromoacetic acid	1.0	U	1.0	1.0
Total Haloacetic Acids	1.0	U	1.0	1.0

Surrogate	% Rec	Acceptance Limits
2-Bromopropionic acid	101	70 - 130

Matrix Spike - Batch: 420-113426

Method: 552.2

Preparation: 552.2

Lab Sample ID: 420-124687-C-2-B MS

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 08/16/2017 0215

Date Prepared: 08/15/2017 0900

Analysis Batch: 420-113427

Prep Batch: 420-113426

Units: ug/L

Instrument ID: 2012 Agilent 5975C MSD and

Lab File ID: 023.D

Initial Weight/Volume: 40 mL

Final Weight/Volume: 4 mL

Injection Volume:

Column ID: PRIMARY

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Monochloroacetic acid	1.0 U	20.0	0	0	70 - 130	U F
Monobromoacetic acid	1.0 U	20.0	23	113	70 - 130	
Dichloroacetic acid	2.8	20.0	23	99	70 - 130	
Trichloroacetic acid	1.3	20.0	21	100	70 - 130	
Bromochloroacetic acid	6.4	20.0	31	125	70 - 130	
Dibromoacetic acid	10	20.0	37	136	70 - 130	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Alpha Analytical

Job Number: 420-124641-1

SDG Number: L1726880

Login Number: 124641

Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	2.5 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C	True	
If false, was sample received on ice within 6 hours of collection.	NA	
Based on above criteria cooler temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	NA	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

This report may not be reproduced, except in full, without written approval from EEA.

STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Montana	CERT0026
Alaska	IN00035	Nebraska	NE-OS-05-04
Arizona	AZ0432	Nevada	IN00035
Arkansas	IN00035	New Hampshire*	2124
California	2920	New Jersey*	IN598
Colorado	IN035	New Mexico	IN00035
Colorado Radiochemistry	IN035	New York*	11398
Connecticut	PH-0132	North Carolina	18700
Delaware	IN035	North Dakota	R-035
Florida*	E87775	Ohio	87775
Georgia	929	Oklahoma	D9508
Hawaii	IN035	Oregon (Primary AB)*	4074-001
Idaho	IN00035	Pennsylvania*	68-00466
Illinois*	200001	Puerto Rico	IN00035
Illinois Microbiology	17767	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-15-8
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA170006	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
Missouri	880		

*NELAP/TNI Recognized Accreditation Bodies

Revision date: 05/15/2017



Eaton Analytical

NELAC NARRATIVE PAGE

Client: Alpha Analytical

Report #: 394722NPa

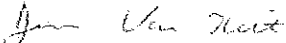
Eurofins Eaton Analytical, Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAC standards, unless otherwise noted.

EEA contact person: James Van Fleit

NELAP requires complete reporting of deviations from method requirements, regardless of the suspected impact on the data. Quality control failures not reported within the report summary are noted here.

There were no quality control failures.

Note: This report may not be reproduced, except in full, without written approval from EEA. EEA is accredited by the National Environmental Laboratory Accreditation Program (NELAP).

	ASM	08/23/2017
Authorized Signature	Title	Date

Page 1 of 1



Eaton Analytical

110 South Hill Street
 South Bend, IN 46617
 Tel: (574) 233-4777
 Fax: (574) 233-8207
 1 800 332 4345

Laboratory Report

Client: Alpha Analytical
 Attn: Brenda Pirinelli
 Eight Walkup Drive
 Westborough, MA 01581

Report: 394722
 Priority: Standard Written
 Status: Amended
 PWS ID: Not Supplied
 Lab ELAP #: 11398

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3748600	Entry Point-Basement Sink	515.3	08/03/17 07:30	Client	08/04/17 09:45
3748601	Entry Point-Basement Sink	531.2	08/03/17 07:30	Client	08/04/17 09:45
3748602	Entry Point-Basement Sink	505	08/03/17 07:30	Client	08/04/17 09:45
3748603	Entry Point-Basement Sink	525.2	08/03/17 07:30	Client	08/04/17 09:45

Report Summary

Note: Sample containers were provided by the client.

Note: This report was amended on 08/23/17 to change the state of origin to NY, at the request of the client.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call James Van Fleit at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA. EEA is accredited by the National Environmental Laboratory Accreditation Program (NELAP).

James Van Fleit ASM

Authorized Signature

Title

08/23/2017

Date

Client Name: Alpha Analytical
 Report #: 394722

Client Name: Alpha Analytical

Report #: 394722

Sampling Point: Entry Point-Basement Sink

PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
12674-11-2	Aroclor 1016	505	—	0.08	< 0.08	ug/L	08/10/17 10:20	08/10/17 22:50	3748602
11104-28-2	Aroclor 1221	505	—	0.19	< 0.19	ug/L	08/10/17 10:20	08/10/17 22:50	3748602
11141-16-5	Aroclor 1232	505	—	0.23	< 0.23	ug/L	08/10/17 10:20	08/10/17 22:50	3748602
53469-21-9	Aroclor 1242	505	—	0.26	< 0.26	ug/L	08/10/17 10:20	08/10/17 22:50	3748602
12672-29-6	Aroclor 1248	505	—	0.1	< 0.1	ug/L	08/10/17 10:20	08/10/17 22:50	3748602
11097-69-1	Aroclor 1254	505	—	0.1	< 0.1	ug/L	08/10/17 10:20	08/10/17 22:50	3748602
11096-82-5	Aroclor 1260	505	—	0.2	< 0.2	ug/L	08/10/17 10:20	08/10/17 22:50	3748602
57-74-9	Chlordane	505	2 *	0.1	< 0.1	ug/L	08/10/17 10:20	08/10/17 22:50	3748602
8001-35-2	Toxaphene	505	3 *	1.0	< 1.0	ug/L	08/10/17 10:20	08/10/17 22:50	3748602
94-75-7	2,4-D	515.3	70 *	0.1	0.4	ug/L	08/09/17 08:50	08/12/17 03:51	3748600
75-99-0	Dalapon	515.3	200 *	1.0	< 1.0	ug/L	08/09/17 08:50	08/12/17 03:51	3748600
1918-00-9	Dicamba	515.3	—	0.1	0.1	ug/L	08/09/17 08:50	08/12/17 03:51	3748600
88-85-7	Dinoseb	515.3	7 *	0.1	< 0.1	ug/L	08/09/17 08:50	08/12/17 03:51	3748600
87-86-5	Pentachlorophenol	515.3	1 *	0.04	< 0.04	ug/L	08/09/17 08:50	08/12/17 03:51	3748600
1918-02-1	Picloram	515.3	500 *	0.1	0.4	ug/L	08/09/17 08:50	08/12/17 03:51	3748600
93-72-1	2,4,5-TP (Silvex)	515.3	50 *	0.1	< 0.1	ug/L	08/09/17 08:50	08/12/17 03:51	3748600
15972-60-8	Alachlor	525.2	2 *	0.1	< 0.1	ug/L	08/10/17 08:08	08/12/17 03:00	3748603
309-00-2	Aldrin	525.2	—	0.1	< 0.1	ug/L	08/10/17 08:08	08/12/17 03:00	3748603
1912-24-9	Atrazine	525.2	3 *	0.1	< 0.1	ug/L	08/10/17 08:08	08/12/17 03:00	3748603
50-32-8	Benzo(a)pyrene	525.2	0.2 *	0.02	< 0.02	ug/L	08/10/17 08:08	08/12/17 03:00	3748603
58-89-9	gamma-BHC (Lindane)	525.2	0.2 *	0.02	< 0.02	ug/L	08/10/17 08:08	08/12/17 03:00	3748603
23184-66-9	Butachlor	525.2	—	0.1	< 0.1	ug/L	08/10/17 08:08	08/12/17 03:00	3748603
60-57-1	Dieldrin	525.2	—	0.1	< 0.1	ug/L	08/10/17 08:08	08/12/17 03:00	3748603
103-23-1	Di(2-ethylhexyl)adipate	525.2	400 *	0.6	< 0.6	ug/L	08/10/17 08:08	08/12/17 03:00	3748603
117-81-7	Di(2-ethylhexyl)phthalate	525.2	6 *	0.6	< 0.6	ug/L	08/10/17 08:08	08/12/17 03:00	3748603
72-20-8	Endrin	525.2	2 *	0.01	< 0.01	ug/L	08/10/17 08:08	08/12/17 03:00	3748603
76-44-8	Heptachlor	525.2	0.4 *	0.04	< 0.04	ug/L	08/10/17 08:08	08/12/17 03:00	3748603
1024-57-3	Heptachlor epoxide	525.2	0.2 *	0.02	< 0.02	ug/L	08/10/17 08:08	08/12/17 03:00	3748603
118-74-1	Hexachlorobenzene	525.2	1 *	0.1	< 0.1	ug/L	08/10/17 08:08	08/12/17 03:00	3748603
77-47-4	Hexachlorocyclopentadiene	525.2	50 *	0.1	< 0.1	ug/L	08/10/17 08:08	08/12/17 03:00	3748603
72-43-5	Methoxychlor	525.2	40 *	0.1	< 0.1	ug/L	08/10/17 08:08	08/12/17 03:00	3748603
51218-45-2	Metolachlor	525.2	—	0.1	< 0.1	ug/L	08/10/17 08:08	08/12/17 03:00	3748603
21087-64-9	Metribuzin	525.2	—	0.1	< 0.1	ug/L	08/10/17 08:08	08/12/17 03:00	3748603
1918-16-7	Propachlor	525.2	—	0.1	< 0.1	ug/L	08/10/17 08:08	08/12/17 03:00	3748603
122-34-9	Simazine	525.2	4 *	0.07	< 0.07	ug/L	08/10/17 08:08	08/12/17 03:00	3748603
116-06-3	Aldicarb	531.2	—	0.5	< 0.5	ug/L	08/08/17 08:15	08/16/17 02:43	3748601
1646-88-4	Aldicarb sulfone	531.2	—	0.7	< 0.7	ug/L	08/08/17 08:15	08/16/17 02:43	3748601
1646-87-3	Aldicarb sulfoxide	531.2	—	0.5	< 0.5	ug/L	08/08/17 08:15	08/16/17 02:43	3748601
63-25-2	Carbaryl	531.2	—	0.5	< 0.5	ug/L	08/08/17 08:15	08/16/17 02:43	3748601
1563-66-2	Carbofuran	531.2	40 *	0.9	< 0.9	ug/L	08/08/17 08:15	08/16/17 02:43	3748601
16655-82-6	3-Hydroxycarbofuran	531.2	—	0.5	< 0.5	ug/L	08/08/17 08:15	08/16/17 02:43	3748601
16752-77-5	Methomyl	531.2	—	0.5	< 0.5	ug/L	08/08/17 08:15	08/16/17 02:43	3748601
90-15-3	1-Naphthol	531.2	—	1.0	< 1.0	ug/L	08/08/17 08:15	08/16/17 02:43	3748601
23135-22-0	Oxamyl	531.2	200 *	1.0	< 1.0	ug/L	08/08/17 08:15	08/16/17 02:43	3748601

Any positive Aroclor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L)

Client Name: Alpha Analytical

Report #: 394722

\$ The state of origin does not offer certification for this parameter.

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

[illegible]